

Name: _____

Student ID: _____

Quiz 4

Question 1. (5 marks) Given

$$A = \begin{bmatrix} -1 & 4 & -7 \\ 2 & -6 & 11 \end{bmatrix} \quad B = \begin{bmatrix} 7 & 9 & -6 \\ 4 & -1 & -8 \end{bmatrix} \quad C = \begin{bmatrix} 3 & 19 \\ 7 & -5 \end{bmatrix}$$

find:

(a) $3A - B$

(b) $-C - A$

(c) $-\frac{1}{2}A + B$

Question 2. (5 marks) Find AB and BA if possible.

$$A = \begin{bmatrix} -3 & 2 & 0 \\ 1 & -4 & 5 \end{bmatrix} \quad B = \begin{bmatrix} -2 & 0 \\ 4 & -6 \\ 5 & 1 \end{bmatrix}$$